

ABSTRACT OF THE DISCLOSURE

A composite-based rim includes multiple fiber-based, commingled layers wherein the strength and/or stiffness increases from the innermost to the outermost layer of the rim, but wherein the radial stress and strain generated in the rim decreases from the innermost to the outermost layer. At least some layers have a mixture of carbon fiber tows and glass fiber tows. The ratio of carbon fiber tows to glass fiber tows in each layer is constant, and the distribution of carbon fiber tows is macroscopically uniform in each layer.

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